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=> d his

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L14            5 S L12

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FILE 'REGISTRY'

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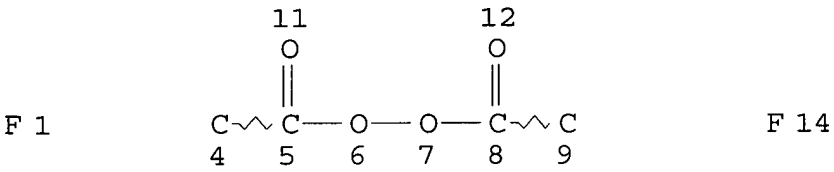

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STEREO ATTRIBUTES: NONE
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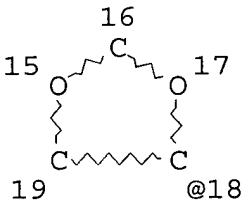

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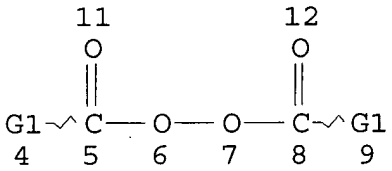

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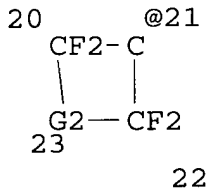

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GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
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STEREO ATTRIBUTES: NONE
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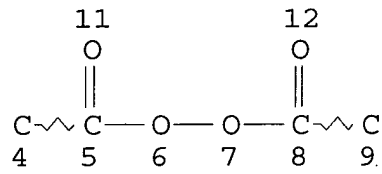

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GRAPH ATTRIBUTES:
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STEREO ATTRIBUTES: NONE
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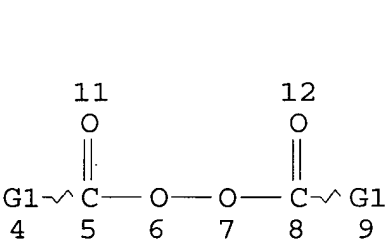

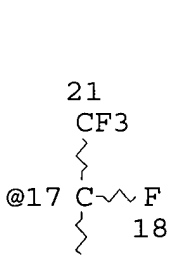

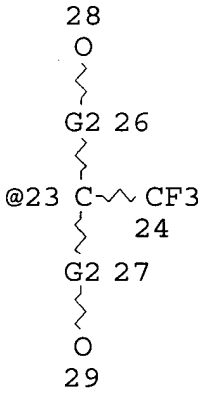

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STEREO ATTRIBUTES: NONE
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SEARCH TIME: 00.00.01

=> file zcaplus
FILE 'ZCAPLUS' ENTERED AT 17:33:53 ON 29 APR 2003
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

(B) and (C)

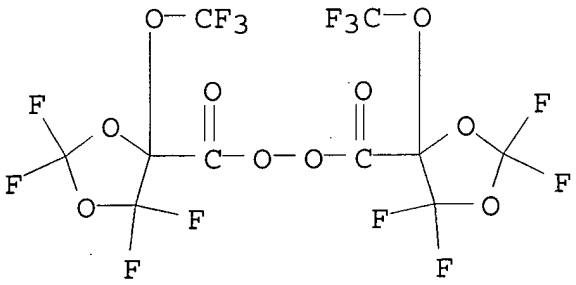
=> d l14 1-5 ibib abs hitstr hitrn

L14 ANSWER 1 OF 5 ZCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:693166 ZCAPLUS
DOCUMENT NUMBER: 137:201722
TITLE: Perfluorodiacylperoxides with high hydrolytic stability used as polymerization initiators
INVENTOR(S): Navarrini, Walter; Galimberti, Marco
PATENT ASSIGNEE(S): Ausimont S.P.A., Italy
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

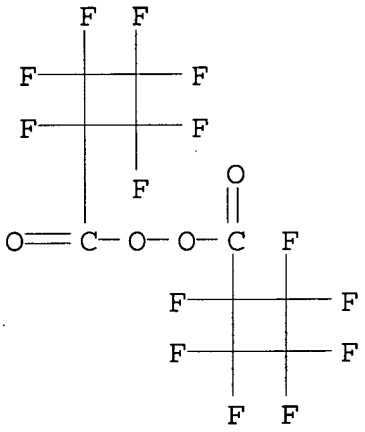
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1238988	A1	20020911	EP 2002-4181	20020226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002128411	A1	20020912	US 2002-86844	20020304
JP 2002332275	A2	20021122	JP 2002-60689	20020306

PRIORITY APPLN. INFO.: IT 2001-MI482 A 20010308
OTHER SOURCE(S): MARPAT 137:201722
AB The perfluorodiacylperoxides Rf(Rf')(Rf")CC:OOOC:OCRf(Rf')(Rf") (I, Rf', Rf" = CF3 if Rf = F; Rf', Rf" = C1-3 linear or branched perfluorooxyalkyl if Rf = CF3) have thermal decompn. consts. Kd (sec-1) in the presence of water, which do not undergo variations with respect to the thermal decompn. consts. in the absence of water. The perfluorodiacylperoxides [e.g., I (Rf = F; Rf', Rf" = CF3)] are obtained with good yield from the resp. perfluoroacyl fluorides [e.g., (CF3)2CFCOF].

IT **453530-78-4P 453530-79-5P**
(perfluorodiacylperoxides with high hydrolytic stability used as polymn. initiators)
RN 453530-78-4 ZCAPLUS
CN Peroxide, bis[[2,2,5,5-tetrafluoro-4-(trifluoromethoxy)-1,3-dioxolan-4-yl]carbonyl] (9CI) (CA INDEX NAME)



RN 453530-79-5 ZCAPLUS
CN Peroxide, bis[(heptafluorocyclobutyl)carbonyl] (9CI) (CA INDEX NAME)



IT **453530-78-4P 453530-79-5P**
(perfluorodiacylperoxides with high hydrolytic stability used as polymn. initiators)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 2 OF 5 ZCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:392603 ZCAPLUS
DOCUMENT NUMBER: 136:355606
TITLE: Production of perfluoropropyl vinyl ether-tetrafluoroethylene copolymer in

octafluorocyclobutane using fluoro-containing peroxide initiators

INVENTOR(S): Loginova, N. N.; Kochkina, L. G.; Erokhova, V. A.; Dedov, A. S.; Zakharov, V. Yu.; Maslyakov, A. I.; Nasonov, Yu. B.; Borovnev, L. M.; Tishina, V. V.

PATENT ASSIGNEE(S): Aktsionernoe Obshchestvo Otkrytogo Tipa "Plastpolimer", Russia; Otkrytoe Aktsionernoe Obshchestvo "Kirovo-Chepetskii Khimicheskii Kombinat i.m. B. P. Konstantinova"

SOURCE: Russ., No pp. given
CODEN: RUXXE7

DOCUMENT TYPE: Patent
LANGUAGE: Russian
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
RU 2156777	C1	20000927	RU 1999-101291	19990119

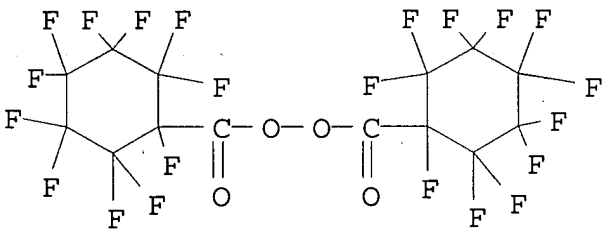
PRIORITY APPLN. INFO.: RU 1999-101291 19990119

AB Perfluoropropyl vinyl ether-tetrafluoroethylene copolymer contg. 2-5% mol of perfluoropropyl vinyl ether (PFPVE) is prepd. by copolymn. of the monomers in octafluorocyclobutane (OFCB) using fluoro-contg. peroxide initiators. A reactor is charged with 10.8 g PFPVE, 36 g of tetrafluoroethylene (TFE), 585 g OFCB and 0.15 g of methanol used as chain-transfer agent. The contents of the reactor are heated to 45.degree. at 0.6 MPa, and 0.4 g of bis((undecafluorocyclohexyl)carbonyl) peroxide initiator is added into the system. The monomers are continuously fed into the reaction mixt. at 45.degree. and 0.6 MPa in molar ratio of TFE:PFPVE = 120:1 until 80% of the total wt. of the monomers is consumed. After this point, tetrafluoroethylene only is fed into the reaction mixt.

IT **203255-90-7**
(prodn. of perfluoropropyl vinyl ether-tetrafluoroethylene copolymer in octafluorocyclobutane using fluoro-contg. peroxide initiators)

RN 203255-90-7 ZCAPLUS

CN Peroxide, bis[(undecafluorocyclohexyl)carbonyl] (9CI) (CA INDEX NAME)

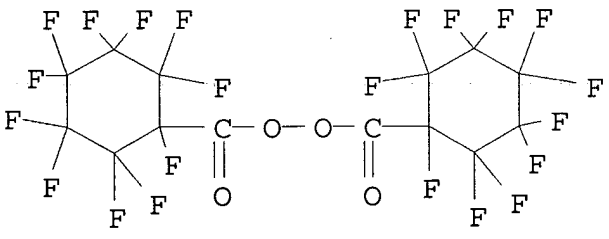


IT **203255-90-7**
(prodn. of perfluoropropyl vinyl ether-tetrafluoroethylene copolymer in octafluorocyclobutane using fluoro-contg. peroxide initiators)

L14 ANSWER 3 OF 5 ZCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:223145 ZCAPLUS
DOCUMENT NUMBER: 131:5861
TITLE: Synthesis and properties of novel perfluorocyclohexylated compounds with bis(perfluorocyclohexane carbonyl) peroxide
AUTHOR(S): Sawada, Hideo; Kurachi, Minaka; Maekawa, Tomomi; Kawase, Tokuzo; Hayakawa, Yoshio; Takishita, Katsuhisa; Tanedani, Toshiyuki
CORPORATE SOURCE: Department of Chemistry, Nara National College of Technology, Yamatokoriyama, Nara, 639-1080, Japan
SOURCE: Journal of Applied Polymer Science (1999), 72(8), 1101-1108
CODEN: JAPNAB; ISSN: 0021-8995
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

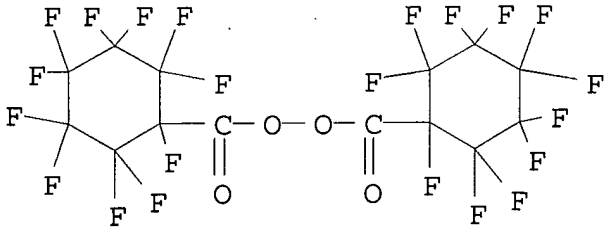
AB Bis(perfluorocyclohexane carbonyl) peroxide was prepd. by the reaction of the corresponding acyl fluoride and hydrogen peroxide. This peroxide was applied to the prepn. of perfluorocyclohexylated end-capped oligomers via a radical process under very mild conditions. In cyclic perfluorocyclohexylated end-capped oligomers contg. hydroxy segments, these oligomers could cause a gelation in water and in polar org. solvents such as MeOH, EtOH, DMF, and DMSO, and the gelling ability of these oligomers was superior to that of the corresponding linear perfluorooxaalkylated oligomers. Furthermore, perfluorocyclohexylation of polystyrene or benzene was proceeded via a single electron transfer reaction by using this peroxide.

IT **203255-90-7P**
(prepn. and characterization of)
RN 203255-90-7 ZCAPLUS
CN Peroxide, bis[(undecafluorocyclohexyl)carbonyl] (9CI) (CA INDEX NAME)



IT **203255-90-7DP**, reaction products with vinyl oligomers

(prepn. and characterization of)
RN 203255-90-7 ZCAPLUS
CN Peroxide, bis[(undecafluorocyclohexyl)carbonyl] (9CI) (CA INDEX NAME)



IT **203255-90-7P**
(prepn. and characterization of)
IT **203255-90-7DP**, reaction products with vinyl oligomers
(prepn. and characterization of)
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 5 ZCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:130932 ZCAPLUS
DOCUMENT NUMBER: 130:237980
TITLE: Perfluorocyclohexyl-containing peroxide, its derivatives, manufacture, and use as radical polymerization initiators
INVENTOR(S): Sawada, Hideo; Komatsu, Shinji
PATENT ASSIGNEE(S): Nippon Oil and Fats Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11049749	A2	19990223	JP 1997-209332	19970804

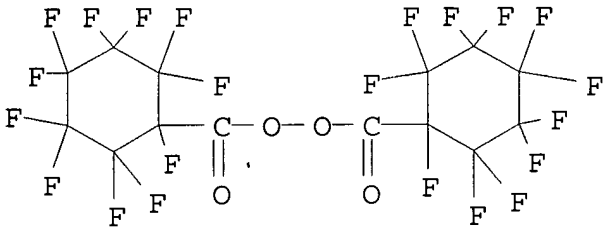
PRIORITY APPLN. INFO.: JP 1997-209332 19970804
OTHER SOURCE(S): MARPAT 130:237980
AB FfCOOOCORf (Rf = perfluorocyclohexyl) (I), Rf(CH2CR1R2)m1(CH2CR1R3)m2Rf [II; Rf = same as I; R1 = H, Me; R2, R3 = halo, cyano, Si(R4)3, CO2R5, CONR6R7; R4 = C1-4 alkyl, alkoxy; R5-R7 = H, C1-18 alkyl, C2-6 hydroxyalkyl, CH2CH2CH2Si(R4)3; m1 = 1-5000; m2 = 0-5000] with Mn 500-1,000,000, ArRf (III; Ar = Ph, thienyl, furyl, tolyl, xylyl, naphthyl; Rf = same as I), and (CH2CHPh)x(CH2CHC6H4Rf)y (IV; Rf = same as I; x = 0-10,000; y = 1-10,000) are claimed. I is useful as an initiator for radical polymn. of polymerizable ethylenic groups. Processes for manuf. of

II, III, and IV from I are also claimed. Thus, RfCOF (Rf = same as I) was oxidized by H2O2 in AK 225 (CF3CF2CHCl2-CF2ClCF2CHFCl mixt.) in the presence of NaOH to give 85% I, which showed 10-h half-life temp. 41.degree.. An AK 225 soln. of I was reacted with trimethoxyvinylsilane at 45.degree. for 10 h to give Rf[CH2CHSi(OMe)3]zRf with Mn 840.

IT **203255-90-7P**
(prepn. of perfluorocyclohexyl-contg. peroxide as radical polymn. initiator or intermediate for F compds.)

RN 203255-90-7 ZCAPLUS

CN Peroxide, bis[(undecafluorocyclohexyl)carbonyl] (9CI) (CA INDEX NAME)



IT **203255-90-7P**
(prepn. of perfluorocyclohexyl-contg. peroxide as radical polymn. initiator or intermediate for F compds.)

L14 ANSWER 5 OF 5 ZCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:111703 ZCAPLUS

DOCUMENT NUMBER: 128:180691

TITLE: Novel perfluorocyclohexylation with bis(perfluorocyclohexane carbonyl) peroxide

AUTHOR(S): Sawada, Hideo; Kurachi, Minaka; Kawase, Tokuzo; Takishita, Katsuhisa; Tanedani, Toshiyuki; Aoshima, Kazuyoshi

CORPORATE SOURCE: Department of Chemistry, Nara National College of Technology, Nara, 639-11, Japan

SOURCE: Chemistry Letters (1998), (2), 153-154
CODEN: CMLTAG; ISSN: 0366-7022

PUBLISHER: Chemical Society of Japan

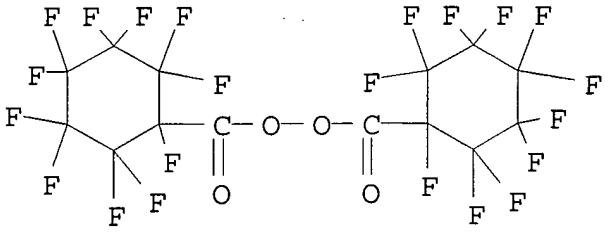
DOCUMENT TYPE: Journal

LANGUAGE: English

AB A new bis(perfluorocyclohexane carbonyl) peroxide was prepd. by the reaction of the corresponding acyl fluoride and hydrogen peroxide. This peroxide was applicable for the direct introduction of perfluorocyclohexyl group into various org. mols. such as acrylic acid oligomer, benzene and polystyrene. In particular interest, not only equatorial but also axial conformational isomers were isolated in phenylperfluorocyclohexane thus obtained.

IT **203255-90-7P**
(perfluorocyclohexylation with bis(perfluorocyclohexane carbonyl) peroxide)

RN 203255-90-7 ZCAPLUS
CN Peroxide, bis[(undecafluorocyclohexyl)carbonyl] (9CI) (CA INDEX NAME)



IT **203255-90-7P**
(perfluorocyclohexylation with bis(perfluorocyclohexane carbonyl) peroxide)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

(A)

=> d l19 1-4 ibib abs hitstr hitrn

L19 ANSWER 1 OF 4 ZCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:693166 ZCAPLUS
DOCUMENT NUMBER: 137:201722
TITLE: Perfluorodiacylperoxides with high hydrolytic stability used as polymerization initiators
INVENTOR(S): Navarrini, Walter; Galimberti, Marco
PATENT ASSIGNEE(S): Ausimont S.P.A., Italy
SOURCE: Eur. Pat. Appl., 13 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1238988	A1	20020911	EP 2002-4181	20020226
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002128411	A1	20020912	US 2002-86844	20020304
JP 2002332275	A2	20021122	JP 2002-60689	20020306

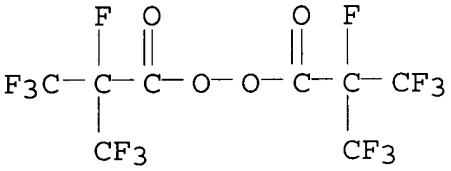
PRIORITY APPLN. INFO.: IT 2001-MI482 A 20010308
OTHER SOURCE(S): MARPAT 137:201722
AB The perfluorodiacylperoxides Rf(Rf')(Rf")CC:OOOC:OCRf(Rf')(Rf") (I, Rf', Rf" = CF3 if Rf = F; Rf', Rf" = C1-3 linear or branched perfluorooxyalkyl if Rf = CF3) have thermal decompn. consts. Kd (sec-1) in the presence of water, which do not undergo variations with respect to the thermal decompn. consts. in the absence of

water. The perfluorodiacylperoxides [e.g., I (Rf = F; Rf', Rf" = CF3)] are obtained with good yield from the resp. perfluoroacyl fluorides [e.g., (CF3)2CFCOF].

IT **111632-55-4P 453530-76-2P**
(perfluorodiacylperoxides with high hydrolytic stability used as polymn. initiators)

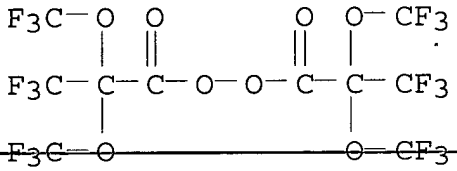
RN 111632-55-4 ZCAPLUS

CN Peroxide, bis[2,3,3,3-tetrafluoro-1-oxo-2-(trifluoromethyl)propyl] (9CI) (CA INDEX NAME)



RN 453530-76-2 ZCAPLUS

CN Peroxide, bis[3,3,3-trifluoro-1-oxo-2,2-bis(trifluoromethoxy)propyl] (9CI) (CA INDEX NAME)



IT **111632-55-4P 453530-76-2P**
(perfluorodiacylperoxides with high hydrolytic stability used as polymn. initiators)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L19 ANSWER 2 OF 4 ZCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1994:606299 ZCAPLUS

DOCUMENT NUMBER: 121:206299

TITLE: Manufacture of copolymers of tetrafluoroethylene and fluorovinyl ethers

INVENTOR(S): Nakahara, Akihiko; Izeki, Juji; Oomori, Kazuyuki; Ezaki, Tatsuo

PATENT ASSIGNEE(S): Tokuyama Soda Kk, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06128335	A2	19940510	JP 1993-78173	19930405
JP 3053996	B2	20000619		

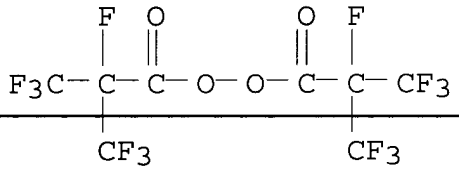
PRIORITY APPLN. INFO.: JP 1992-234931 A 19920902

AB Copolymers of F2C:CF2 and RfCH2OCF:CF2 (Rf = halogenated hydrocarbyl) are manufd. by polymn. using 0.001-0.012 mol% radical initiators and 0.2-2 mol% chain-transfer agents; during the polymn. monomer mixts. are supplied to a polymn. reactor in a way so that the monomer concn. in the reaction mixts. can be const. A copolymer of F2C:CF2 and F3CCF2CH2OCF:CF2 was manufd. by polymn. using (C3F7CO2)2 as initiator and MeOH as chain-transfer agent; mixed gas of 2 monomers in 96.9:3.1 molar ratio was introduced gradually to the reactor where the polymn. took place to keep 6 kg/cm2 pressure. The resulting copolymer was further fluorinated by treating with fluorine gas to give the corresponding perfluoropolymer.

IT **111632-55-4**
(radical initiator; manuf. of copolymers of tetrafluoroethylene and fluorovinyl ethers)

RN 111632-55-4 ZCAPLUS

CN Peroxide, bis[2,3,3,3-tetrafluoro-1-oxo-2-(trifluoromethyl)propyl] (9CI) (CA INDEX NAME)



IT **111632-55-4**
(radical initiator; manuf. of copolymers of tetrafluoroethylene and fluorovinyl ethers)

L19 ANSWER 3 OF 4 ZCAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1989:535000 ZCAPLUS

DOCUMENT NUMBER: 111:135000

TITLE: Cyclopolymerization of fluorine-containing vinyl compounds

INVENTOR(S): Nakamura, Masaru; Kaneko, Isamu; Oharu, Kazuya; Kojima, Gen; Matsuo, Masashi; Samejima, Shunichi; Kamba, Motoi

PATENT ASSIGNEE(S): Asahi Glass Co., Ltd., Japan

SOURCE: Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

EP 303292	A2	19890215	EP 1988-113167	19880812
EP 303292	A3	19900425		
EP 303292	B1	19940601		
R: DE, FR, GB, IT				
JP 01131214	A2	19890524	JP 1988-194593	19880805
JP 2581182	B2	19970212		
JP 01131215	A2	19890524	JP 1988-194594	19880805
JP 2526641	B2	19960821		
US 4897457	A	19900130	US 1988-233820	19880810
US 4910276	A	19900320	US 1988-233821	19880810
CA 1302638	A1	19920602	CA 1988-574687	19880812

PRIORITY APPLN. INFO.: JP 1987-201864 19870814

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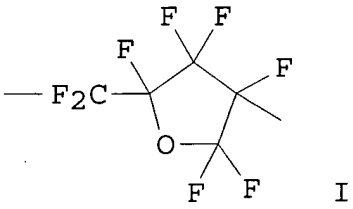

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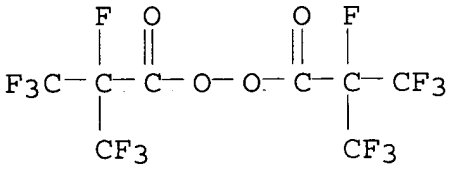
AB The cyclopolymn. or cyclocopolymn. is applied to monomers contg. .gtoreq.10% F and 2 unsatd. carbon-carbon bonds of different polymerizability and of asym. structures and contg. a straight chain of 2-7 atoms; the polymn. is carried out at 0-200.degree. and reduced pressure or at a pressure from normal pressure to 100 atm. Thus, polymg. perfluoroallyl perfluorovinyl ether in the presence of diisopropyl peroxydicarbonate at 25.degree. and slightly reduced pressure for 16 h gave a cyclic polymer contg. repeating units I.

IT **111632-55-4**
(catalyst, for cyclopolymn. of fluorine-contg. asym. diunsatd. vinyl monomers)

RN 111632-55-4 ZCAPLUS

CN Peroxide, bis[2,3,3,3-tetrafluoro-1-oxo-2-(trifluoromethyl)propyl] (9CI) (CA INDEX NAME)



IT **111632-55-4**
(catalyst, for cyclopolymn. of fluorine-contg. asym. diunsatd. vinyl monomers)

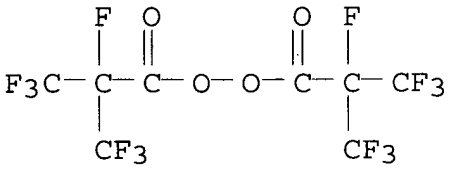
L19 ANSWER 4 OF 4 ZCAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1987:637928 ZCAPLUS
DOCUMENT NUMBER: 107:237928
TITLE: Crosslinked fluorine-containing polymers
INVENTOR(S): Takada, Kuniaki
PATENT ASSIGNEE(S): Tokuyama Soda Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62059610	A2	19870316	JP 1985-198660	19850910

PRIORITY APPLN. INFO.: JP 1985-198660 19850910

AB Title polymers with excellent heat and chem. resistance and dimensional stability are prepd. by copolymn. of monomer mixts. contg. (a) F-contg. divinyl compds. and (b) F-contg. vinyl compds. at .gtoreq.0.5 a/(a + b) molar ratios in the presence of .gtoreq.1 polymn. initiator selected from peroxydicarbonates and F-contg. diacyl peroxides. Thus, 8.0 parts (98% pure) CF2:CFO(CF2)2OCF:CF2 (I) was copolymd. with 2.0 parts (98% pure) CF2:CFOCF2CF2CF3 (II) in the presence of 0.3 part (CF3CF2CF2COO)2 at 20.degree. for 3 days under N to prep. a crosslinked polymer with conversion 96%, vs. 0 when 2.0 parts I was copolymd. with 8.0 parts II.

IT ~~111632-55-4~~
(catalysts, for prepn. of crosslinked fluorine-contg. vinyl polymers)
RN 111632-55-4 ZCAPLUS
CN Peroxide, bis[2,3,3,3-tetrafluoro-1-oxo-2-(trifluoromethyl)propyl] (9CI) (CA INDEX NAME)



IT **111632-55-4**
(catalysts, for prepn. of crosslinked fluorine-contg. vinyl polymers)

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